

A NEW SPECIES OF *EUCHROMIUS* GUENÉE, 1845 (LEPIDOPTERA: PYRALIDAE: CRAMBINAE) FROM AUSTRALIA

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Euchromius cornus sp. n. is described from Australia. The external characters, male and female genitalia are described and figured in detail.

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Key words. – Pyralidae; Crambinae; *Euchromius*; Australia; new species.

Presumably in 1991, a checklist of the Lepidoptera of Australia will be published. The only species of *Euchromius* occurring in Australia is described in this article to have the name available for this checklist. A revision of the other species will be published shortly.

RTAS refers to author's collection, other abbreviations (codens) used in the list of type material follow Arnett & Samuelson (1986). The terminology used in the descriptions follows Schouten (1988).

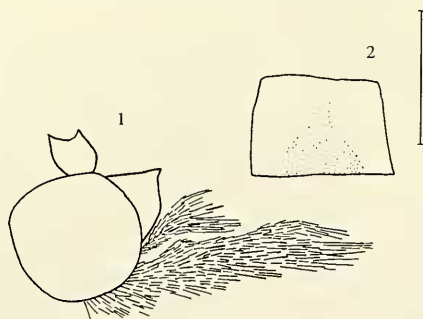
Euchromius cornus sp. n. (figs. 1-5)

Type material. – Holotype: ♂, 'Sherlock R. W. Australia. E. Clements. 98-188.', genitalia slide 17616 BM (BMNH). – Paratypes: 1 ♂, Alexandria (BMNH); 1 ♂, Comrav (BMNH); 2 ♂, 4 ♀, Broken Hill (RTAS, SAMA); 1 ♂, to Alhannau above Column (SAMA); 1 ♂, Stevenson River (SAMA); 2 ♂, 1 ♀, 3 km. NW by W. of Millstream HS. (ANIC); 1 ♂, 2 ♀, 1 km. NE of Millstream HS. (ANIC, RTAS); 1 ♂, 1 ♀, 1 km. N of Millstream HS. (ANIC, RTAS); 1 ♀, 1/2 km. WNW of Millstream HS. (ANIC); 2 ♂, 1 km NNE of Millstream WA (ANIC, RTAS); 1 ♂, Camooweal (ANIC); 1 ♀, 31 km NNW Longreach, Q. (ANIC); 1 ♂, Kimberley Research Stn Via Wyndham N. W. Aust. (ANIC); 2 ♂, Ivanhoe. W. A (ANIC, RTAS); 1 ♂, Moora W Q (ANIC); 1 ♀, Limestone Creek, 42 km NNW of Boulia, Q. (ANIC); 1 ♀, Jimjim Creek 19 km WSW of Mt. Cahill, N. T. (ANIC); 1 ♂, Charleville Q. (ANIC); 2 ♂, 1 ♀, Injune Q. (ANIC, RTAS); 1 ♀, Cunnamulla Q. (ANIC); 1 ♂, 1 ♀, Adaville Q. (ANIC); 1 ♀, Milmeran Q. (ANIC).

Diagnosis. – Externally almost indistinguishable from *Euchromius* species with a double medial fas-

cia and frons with one point. Differs in male genitalia from all species in having the uncus armed with a short, double, dorsal projection. Differs in female genitalia from *E. geminus*, *E. californicalis*, *E. limaeus*, *E. ocellus*, *E. saltalis*, *E. mythus* and *E. tanalis* in having a short ductus bursae without clear sclerotizations.

External characters (fig. 1). – Wingspan 16-22 mm. Frons produced forward, conical with clear point, creamy white, no ventral ridge; vertex creamy white; labial palp two to two and a half, sides creamy white at base, becoming light brown, creamy white from above and below; maxillary palp creamy white to light brown, dark ringed at base of last segment; antenna creamy white. Thorax creamy white to light brown; patagia creamy white; tegulae creamy white, evenly mottled. Forewing,



Figs. 1-2. *Euchromius cornus*. 1, Head, lateral aspect, scales removed, scale 1 mm; 2, Male, sclerotization of tergite VIII, scale 1 mm.



Fig. 3. *Euchromius cornus*, male genitalia, holotype; ventro-caudal aspect, valvae spread; aedeagus separated, lateral aspect, slide BM 17616, scale 0.5 mm.

groundcolour creamy white densely suffused with ochreous brown to brown scales; medial fascia double, arched to nearly straight, running to one-sixth to one-fifth of the dorsum; subterminal line ochreous brown, inconspicuous, slightly closer to termination of posterior area than to terminal dots, sometimes about halfway between terminal dots and termination of posterior area; area adjacent to terminal dots white; eight or nine black terminal dots, formula 2-2-3-1 or 1-2-3-2 or 2-2-3-2; fringes shiny, creamy white with two to three brown lines. Hindwing creamy white, subterminal fascia absent, termen darkly bordered; fringes white with creamy white line.

Tergite VIII (fig. 2). – Tergite normally sclerotized, posterior part triangular, stalk only partly visible, anterior pattern not visible.

Male genitalia (fig. 3). – Uncus with a short, double, dorsal projection; gnathos longer, with dorsal dagger-shaped projections at each side of base, two dorsal thorns relatively large, terminal part long; tegumen without appendix angularis; sacculus normal, processus of sacculus absent, processus basalis long strongly sclerotized, two processi inferiores valvae, cucullus club-shaped, bent upward; juxta triangular, armed with two dorsal projections; vinculum small; aedeagus normal sized, one dentate cornutus anterior of anellus connection, second,

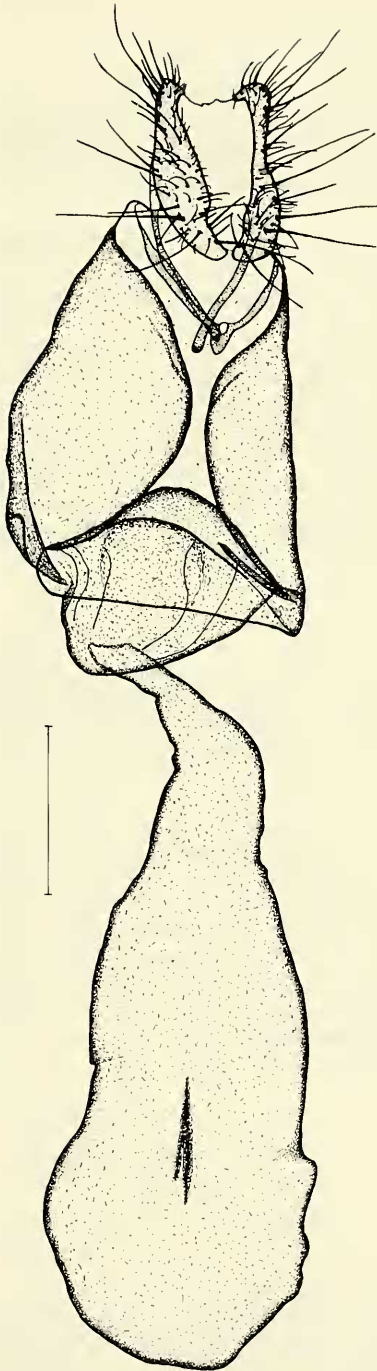


Fig. 4. *Euchromius cornus*, female genitalia; ventral aspect, slide BM 17469, scale 0.5 mm.



Fig. 5. Distribution of *Euchromius cornus*.

fainter group of cornuti more posterior.

Female genitalia (fig. 4). – Papillae anales normal; membrane of tergite VIII with cord-like sclerotization, edges of tergite VIII not connected; ostium lip-shaped; ductus bursae short, broad under ostium; ductus seminalis narrow; bursa copulatrix oblong, two long signa, about equal in size.

Ecology. – Unknown. Two generations, the first starts in February and ends at the end of May, most specimens were caught in April and May. The second generation flies from August to the end of November, most specimens in September and October.

Distribution (fig. 5). – Restricted to Australia, where it can be found in most provinces.

REFERENCES

- Arnett, R. H. & G. A. Samuelson, 1986. The insect and spider collections of the world. 220 pp. – E.J. Brill/Flora & Fauna publications, Gainesville.
- Haworth, A. H., 1811. *Lepidoptera Britannica*, 3: 377-511. – London.
- Schouten, R. T. A., 1988. Revision of the species of the genus *Euchromius* Guenée, 1845 (Lepidoptera: Pyralidae: Crambinae) occurring in the Afrotropical region. – *Zoologische Verhandelingen Leiden* 244: 1-64.

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